

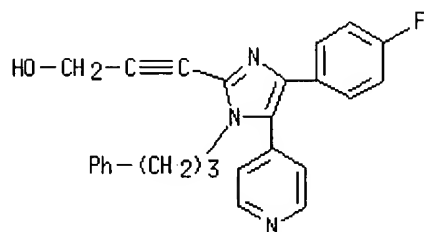
\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

L4 63 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN

IN 2-Propyn-1-ol, 3-[4-(4-fluorophenyl)-1-(3-phenylpropyl)-5-(4-pyridinyl)-1H-imidazol-2-yl] - (9CI)

MF C26 H22 F N3 O

C2 129:3302 8  
103 (a)  
monologue



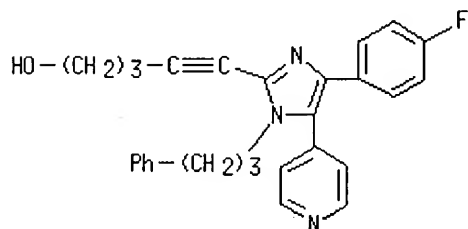
(2 129:330728

\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

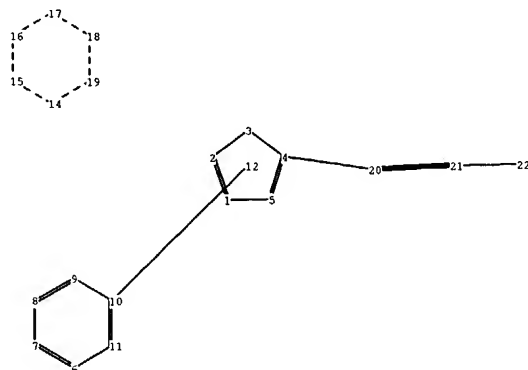
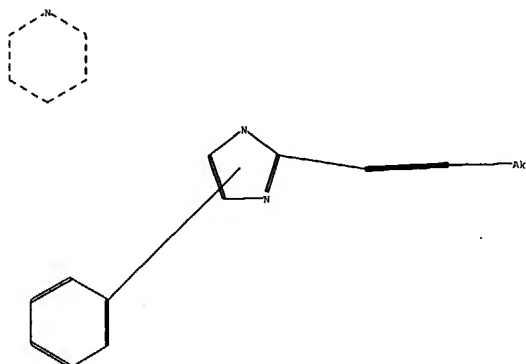
L4 63 ANSWERS REGISTRY COPYRIGHT 2004 ACS on STN

IN 4-Pentyn-1-ol, 5-[4-(4-fluorophenyl)-1-(3-phenylpropyl)-5-(4-pyridinyl)-1H-imidazol-2-yl]- (9CI)

MF C28 H26 F N3 O

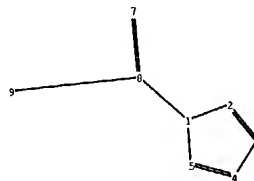
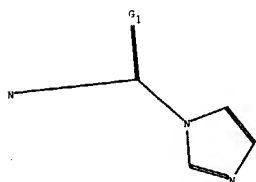


103 (a)  
homomorph



ain nodes :  
 20 21 22  
 ng nodes :  
 1 2 3 4 5 6 7 8 9 10 11 14 15 16 17 18 19  
 ain bonds :  
 4-20 20-21 21-22  
 ng bonds :  
 1-2 1-5 2-3 3-4 4-5 6-7 6-11 7-8 8-9 9-10 10-11 14-15 14-19 15-16 16-17  
 17-18 18-19  
 act/norm bonds :  
 1-5 2-3 3-4 4-5 14-15 14-19 15-16 16-17 17-18 18-19 21-22  
 act bonds :  
 1-2 4-20 20-21  
 rmalized bonds :  
 6-7 6-11 7-8 8-9 9-10 10-11  
 olated ring systems :  
 containing 1 : 6 : 14 :

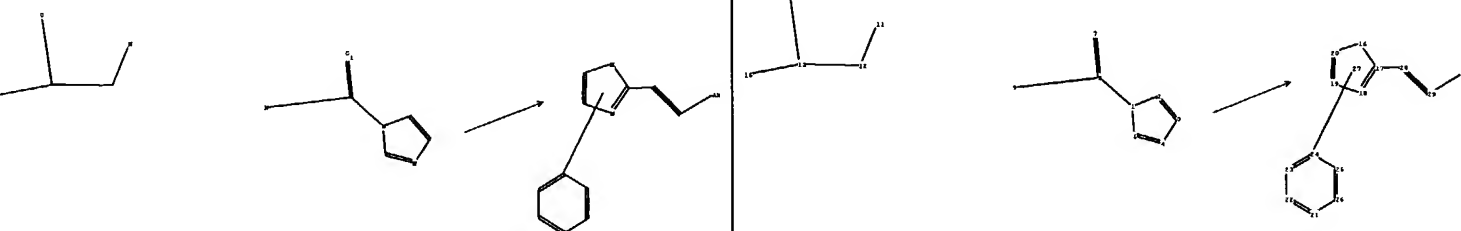
tch level :  
 1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 11:Atom  
 12:CLASS 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:Atom 20:CLASS 21:CLASS  
 22:CLASS



main nodes :  
 7 8 9  
 ng nodes :  
 1 2 3 4 5  
 main bonds :  
 1-8 7-8 8-9  
 ng bonds :  
 1-2 1-5 2-3 3-4 4-5  
 exact/norm bonds :  
 1-2 1-5 1-8 3-4 4-5 7-8 8-9  
 exact bonds :  
 2-3  
 isolated ring systems :  
 containing 1 :

:O,S

match level :  
 1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 7:CLASS 8:CLASS 9:CLASS



hain nodes :  
 7 8 9 11 12 13 14 15 28 29 30  
 ing nodes :  
 1 2 3 4 5 16 17 18 19 20 21 22 23 24 25 26  
 hain bonds :  
 1-8 7-8 8-9 11-12 12-13 13-15 13-14 17-28 28-29 29-30  
 ing bonds :  
 1-2 1-5 2-3 3-4 4-5 16-17 16-20 17-18 18-19 19-20 21-22 21-26 22-23 23-24  
 24-25 25-26  
 xact/norm bonds :  
 1-2 1-5 1-8 3-4 4-5 7-8 8-9 11-12 13-15 13-14 16-17 16-20 17-18 18-19 29-30  
 xact bonds :  
 2-3 12-13 17-28 19-20 28-29  
 ormalized bonds :  
 21-22 21-26 22-23 23-24 24-25 25-26  
 solated ring systems :  
 containing 1 : 16 : 21 :

1:O,S

atch level :  
 1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 7:CLASS 8:CLASS 9:CLASS 11:CLASS 12:CLASS  
 13:CLASS 14:CLASS 15:CLASS 16:Atom 17:Atom 18:Atom 19:Atom 20:Atom 21:Atom  
 22:Atom 23:Atom 24:Atom 25:Atom 26:Atom 27:CLASS 28:CLASS 29:CLASS 30:CLASS  
 ragment assigned reactant role:  
 containing 1  
 containing 11  
 ragment assigned product role:  
 containing 16

\* \* \* \* \* Welcome to STN International \* \* \* \* \*

NEWS 1 Web Page URLs for STN Seminar Schedule - N. America  
 NEWS 2 "Ask CAS" for self-help around the clock  
 NEWS 3 May 10 PROUSDDR now available on STN  
 NEWS 4 May 19 PROUSDDR: One FREE connect hour, per account, in both May  
 and June 2004  
 NEWS 5 May 12 EXTEND option available in structure searching  
 NEWS 6 May 12 Polymer links for the POLYLINK command completed in REGISTRY  
 NEWS 7 May 17 FRFULL now available on STN  
 NEWS 8 May 27 New UPM (Update Code Maximum) field for more efficient patent  
 SDIs in CAPlus  
 NEWS 9 May 27 CAPlus super roles and document types searchable in REGISTRY  
 NEWS 10 May 27 Explore APOLLIT with free connect time in June 2004  
 NEWS 11 Jun 22 STN Patent Forums to be held July 19-22, 2004  
 NEWS 12 Jun 28 Additional enzyme-catalyzed reactions added to CASREACT  
 NEWS 13 Jun 28 ANTE, AQUALINE, BIOENG, CIVILENG, ENVIROENG, MECHENG,  
 and WATER from CSA now available on STN(R)

NEWS EXPRESS MARCH 31 CURRENT WINDOWS VERSION IS V7.00A, CURRENT  
 MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),  
 AND CURRENT DISCOVER FILE IS DATED 26 APRIL 2004  
 NEWS HOURS STN Operating Hours Plus Help Desk Availability  
 NEWS INTER General Internet Information  
 NEWS LOGIN Welcome Banner and News Items  
 NEWS PHONE Direct Dial and Telecommunication Network Access to STN  
 NEWS WWW CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that  
 specific topic.

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\* \* \* \* \* STN Columbus \* \* \* \* \*

FILE 'HOME' ENTERED AT 20:05:13 ON 01 JUL 2004

=> file reg

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'REGISTRY' ENTERED AT 20:05:21 ON 01 JUL 2004

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STRUCTURE FILE UPDATES: 30 JUN 2004 HIGHEST RN 701907-96-2

DICTIONARY FILE UPDATES: 30 JUN 2004 HIGHEST RN 701907-96-2

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2004

Please note that search-term pricing does apply when

conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:

<http://www.cas.org/ONLINE/DBSS/registryss.html>

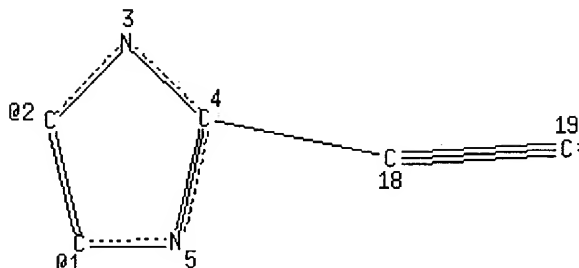
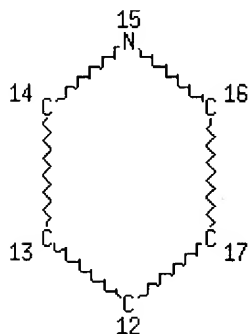
=>

L1 STRUCTURE UPLOADED

=> d 11

L1 HAS NO ANSWERS

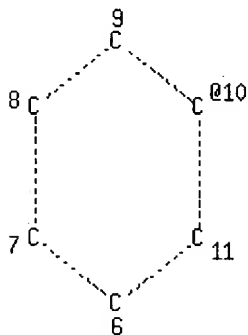
L1 STR



Page 1-A

..... Ak 20

Page 1-B



Page 2-A

VPA 10-1/2 S

NODE ATTRIBUTES:

NSPEC	IS R	AT	1
NSPEC	IS R	AT	2
NSPEC	IS R	AT	3
NSPEC	IS R	AT	4
NSPEC	IS R	AT	5
NSPEC	IS R	AT	6

NSPEC IS R AT 7  
 NSPEC IS R AT 8  
 NSPEC IS R AT 9  
 NSPEC IS R AT 10  
 NSPEC IS R AT 11  
 NSPEC IS R AT 12  
 NSPEC IS R AT 13  
 NSPEC IS R AT 14  
 NSPEC IS R AT 15  
 NSPEC IS R AT 16  
 NSPEC IS R AT 17  
 NSPEC IS C AT 18  
 NSPEC IS C AT 19  
 NSPEC IS C AT 20  
 DEFAULT MLEVEL IS ATOM  
 MLEVEL IS CLASS AT 18 19 20  
 DEFAULT ECLEVEL IS LIMITED

## GRAPH ATTRIBUTES:

RSPEC I  
 NUMBER OF NODES IS 20

STEREO ATTRIBUTES: NONE

=> s 11

SAMPLE SEARCH INITIATED 20:06:06 FILE 'REGISTRY'  
 SAMPLE SCREEN SEARCH COMPLETED - 90 TO ITERATE

100.0% PROCESSED 90 ITERATIONS 2 ANSWERS  
 SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*  
 BATCH \*\*COMPLETE\*\*  
 PROJECTED ITERATIONS: 1231 TO 2369  
 PROJECTED ANSWERS: 2 TO 124

L2 2 SEA SSS SAM L1

=> s 11 full

THE ESTIMATED SEARCH COST FOR FILE 'REGISTRY' IS 155.00 U.S. DOLLARS  
 DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N or END:y  
 FULL SEARCH INITIATED 20:06:10 FILE 'REGISTRY'  
 FULL SCREEN SEARCH COMPLETED - 1628 TO ITERATE

100.0% PROCESSED 1628 ITERATIONS 35 ANSWERS  
 SEARCH TIME: 00.00.01

L3 35 SEA SSS FUL L1

=> file hcaplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	155.84	156.05

FILE 'HCAPLUS' ENTERED AT 20:06:16 ON 01 JUL 2004  
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FILE COVERS 1907 - 1 Jul 2004 VOL 141 ISS 1  
FILE LAST UPDATED: 30 Jun 2004 (20040630/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

```
=> s l3/prep
      16 L3
      3166075 PREP/RL
L4      2 L3/PREP
      (L3 (L) PREP/RL)
```

```
=> file reg
COST IN U.S. DOLLARS          SINCE FILE      TOTAL
                               ENTRY      SESSION
FULL ESTIMATED COST          2.36      158.41
```

FILE 'REGISTRY' ENTERED AT 20:06:35 ON 01 JUL 2004  
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STRUCTURE FILE UPDATES: 30 JUN 2004 HIGHEST RN 701907-96-2  
DICTIONARY FILE UPDATES: 30 JUN 2004 HIGHEST RN 701907-96-2

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2004

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

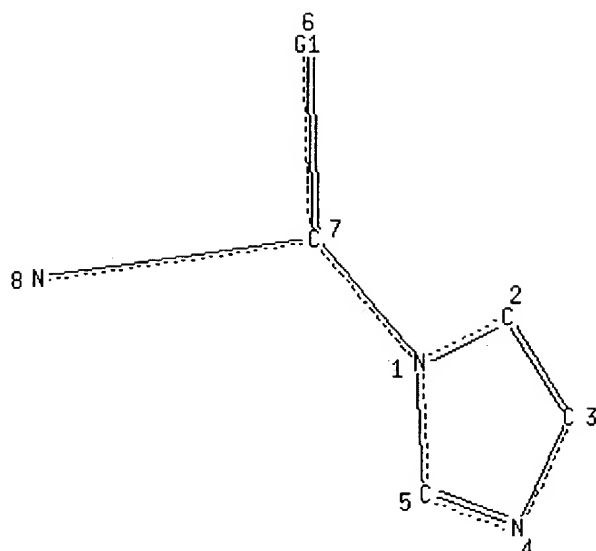
Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:

<http://www.cas.org/ONLINE/DBSS/registryss.html>

```
=>
L5      STRUCTURE UPLOADED
```

```
=> d 15
L5 HAS NO ANSWERS
L5      STR
```

```
09 5 10
Page 1-A
```



Page 1-B

VAR G1=9/10

NODE ATTRIBUTES:

NSPEC	IS R	AT	1
NSPEC	IS R	AT	2
NSPEC	IS R	AT	3
NSPEC	IS R	AT	4
NSPEC	IS R	AT	5
NSPEC	IS C	AT	6
NSPEC	IS C	AT	7
NSPEC	IS C	AT	8

DEFAULT MLEVEL IS ATOM  
 MLEVEL IS CLASS AT 7 8 9 10  
 DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RSPEC I

NUMBER OF NODES IS 10

STEREO ATTRIBUTES: NONE

=> s 15

SAMPLE SEARCH INITIATED 20:08:50 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 582 TO ITERATE

100.0% PROCESSED 582 ITERATIONS

50 ANSWERS

INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*  
 BATCH \*\*COMPLETE\*\*

PROJECTED ITERATIONS: 10193 TO 13087

PROJECTED ANSWERS: 2038 TO 3442

L6 50 SEA SSS SAM L5

=> s 15 full

THE ESTIMATED SEARCH COST FOR FILE 'REGISTRY' IS 155.00 U.S. DOLLARS

DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N or END:y

FULL SEARCH INITIATED 20:08:55 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 12539 TO ITERATE

100.0% PROCESSED 12539 ITERATIONS  
SEARCH TIME: 00.00.01

2876 ANSWERS

L7 2876 SEA SSS FUL L5

=> file hcaplus

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

156.68

315.09

FILE 'HCAPLUS' ENTERED AT 20:08:58 ON 01 JUL 2004

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FILE COVERS 1907 - 1 Jul 2004 VOL 141 ISS 1

FILE LAST UPDATED: 30 Jun 2004 (20040630/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s l7

L8 1663 L7

=> s l7/rct

1663 L7

2635540 RCT/RL

L9 249 L7/RCT

(L7 (L) RCT/RL)

=> d his

(FILE 'HOME' ENTERED AT 20:05:13 ON 01 JUL 2004)

FILE 'REGISTRY' ENTERED AT 20:05:21 ON 01 JUL 2004

L1 STRUCTURE UPLOADED

L2 2 S L1

L3 35 S L1 FULL

FILE 'HCAPLUS' ENTERED AT 20:06:16 ON 01 JUL 2004

L4 2 S L3/PREP

FILE 'REGISTRY' ENTERED AT 20:06:35 ON 01 JUL 2004

L5 STRUCTURE UPLOADED

L6 50 S L5

L7 2876 S L5 FULL

FILE 'HCAPLUS' ENTERED AT 20:08:58 ON 01 JUL 2004

L8 1663 S L7  
 L9 249 S L7/RCT

=&gt; s 19 and 14

L10 1 L9 AND L4

=&gt; d 110, ibib abs hitstr, 1

L10 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2004 ACS on STN

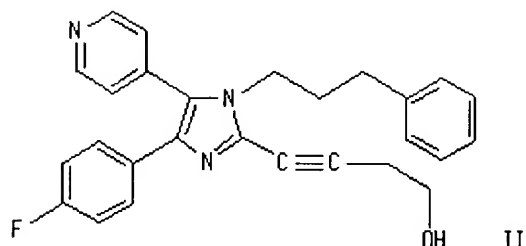
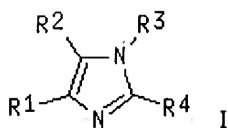
Full Text	Citing References
-----------	-------------------

ACCESSION NUMBER: 2002:754379 HCAPLUS  
 DOCUMENT NUMBER: 137:263034  
 TITLE: Process for the preparation of tetrasubstituted imidazole derivatives and novel crystalline structures thereof  
 INVENTOR(S): Zhong, Hua; Dubberke, Silke; Muller, Stefan; Rossler, Armin; Schultz, Thomas W.; Korey, Daniel J.; Otten, Thomas; Walker, Donald G.; Abdel-Magid, Abdel  
 PATENT ASSIGNEE(S): Ortho-Mcneil Pharmaceutical, Inc., USA  
 SOURCE: PCT Int. Appl., 55 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
<u>WO 2002076974</u>	A2	20021003	<u>WO 2002-US5419</u>	20020222
<u>WO 2002076974</u>	A3	20030213		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
<u>US 2003045723</u>	A1	20030306	<u>US 2002-81553</u>	20020222
<u>BR 2002008462</u>	A	20040302	<u>BR 2002-8462</u>	20020222
<u>EP 1392678</u>	A2	20040303	<u>EP 2002-753758</u>	20020222
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				

PRIORITY APPLN. INFO.:  
US 2001-278607P P 20010326  
US 2002-81553 A 20020222  
WO 2002-US5419 W 20020222

OTHER SOURCE(S): CASREACT 137:263034; MARPAT 137:263034  
 GI



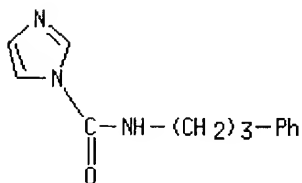
AB The present invention relates to a process for the prepn. of I [R1 = (un)substituted Ph; R2 = (un)substituted phenyl; R3 = H, aryl; R4 = C≡C(CH<sub>2</sub>)<sub>0-9</sub>-X; X = H, OH, vinyl, etc.]. For instance, the dimethoxy acetal of 4-pyridinecarboxaldehyde was lithiated (THF, n-BuLi, -15°) and added to the N-TMS-imine deriv. of 4-fluorobenzaldehyde (prepn. given) to afford 2,2-Dimethoxy-2-(4-pyridyl)-1-(4-fluorophenyl)ethanamine in 79% yield. This intermediate was acylated with N-(3-phenylpropyl)-1H-imidazole-1-carboxamide (prepn. given), to give the corresponding urea. This was treated with formic acid at 95-100° for 24 h resulting in hydrolysis of the ketal with concomitant cyclization to the corresponding imidazolin-2-one. The imidazolin-2-one was converted to the bromide (sulfolane, POBr<sub>3</sub>, 130°, 3 h, 62%) and subsequently coupled to 3-butyn-1-ol to give II in 75% yield. Two polymorphs of II were characterized by XRPD.

IT 149047-40-5P, N-(3-Phenylpropyl)-1H-imidazole-1-carboxamide

RL: **RCT (Reactant)**; SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
(intermediate; process for prepn. of tetrasubstituted imidazole derivs. and novel cryst. structures thereof)

RN 149047-40-5 HCAPLUS

CN 1H-Imidazole-1-carboxamide, N-(3-phenylpropyl)- (9CI) (CA INDEX NAME)

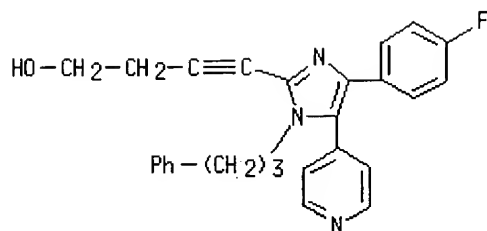


IT 215303-72-3P, 4-(4-Fluorophenyl)-2-(4-hydroxy-1-butynyl)-1-(3-Phenylpropyl)-5-(4-Pyridyl)imidazole

RL: SPN (Synthetic preparation); **PREP (Preparation)**  
(process for prepn. of tetrasubstituted imidazole derivs. and novel cryst. structures thereof)

RN 215303-72-3 HCAPLUS

CN 3-Butyn-1-ol, 4-[4-(4-fluorophenyl)-1-(3-phenylpropyl)-5-(4-pyridinyl)-1H-imidazol-2-yl]- (9CI) (CA INDEX NAME)



=> file caold

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

7.12

322.21

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE

TOTAL

ENTRY

SESSION

CA SUBSCRIBER PRICE

-0.69

-0.69

FILE 'CAOLD' ENTERED AT 20:09:33 ON 01 JUL 2004

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FILE COVERS 1907-1966

FILE LAST UPDATED: 01 May 1997 (19970501/UP)

This file contains CAS Registry Numbers for easy and accurate substance identification. Title keywords, authors, patent assignees, and patent information, e.g., patent numbers, are now searchable from 1907-1966. TIFF images of CA abstracts printed between 1907-1966 are available in the PAGE display formats.

This file supports REGISTRY for direct browsing and searching of all substance data from the REGISTRY file. Enter HELP FIRST for more information.

=> d his

(FILE 'HOME' ENTERED AT 20:05:13 ON 01 JUL 2004)

FILE 'REGISTRY' ENTERED AT 20:05:21 ON 01 JUL 2004

L1 STRUCTURE UPLOADED

L2 2 S L1

L3 35 S L1 FULL

FILE 'HCAPLUS' ENTERED AT 20:06:16 ON 01 JUL 2004

L4 2 S L3/PREP

FILE 'REGISTRY' ENTERED AT 20:06:35 ON 01 JUL 2004

L5 STRUCTURE UPLOADED

L6 50 S L5

L7 2876 S L5 FULL

FILE 'HCAPLUS' ENTERED AT 20:08:58 ON 01 JUL 2004

L8 1663 S L7

L9 249 S L7/RCT

L10 1 S L9 AND L4

FILE 'CAOLD' ENTERED AT 20:09:33 ON 01 JUL 2004

=> s 13 and 17

0 L3  
25 L7  
L11 0 L3 AND L7

=> file casreact

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.84	323.05
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-0.69

FILE 'CASREACT' ENTERED AT 20:10:37 ON 01 JUL 2004  
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FILE CONTENT:1840 - 27 Jun 2004 VOL 140 ISS 26

\*\*\*\*\*  
\* CASREACT now has more than 8 million reactions \*  
\*  
\*\*\*\*\*

Some records from 1974 to 1991 are derived from the ZIC/VINITI data file and provided by InfoChem and some records are produced using some INPI data from the period prior to 1986. Biotransformations database from (1971-1998).

This file contains CAS Registry Numbers for easy and accurate substance identification.

=>  
L12 STRUCTURE UPLOADED

=> d 112  
L12 HAS NO ANSWERS  
L12 STR

=> s 112  
SAMPLE SEARCH INITIATED 20:14:58 FILE 'CASREACT'  
SCREENING COMPLETE - 0 REACTIONS TO VERIFY FROM 0 DOCUMENTS

100.0% DONE 0 VERIFIED 0 HIT RXNS 0 DOCS  
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*  
BATCH \*\*COMPLETE\*\*  
PROJECTED VERIFICATIONS: 0 TO 0  
PROJECTED ANSWERS: 0 TO 0

L13                    0 SEA SSS SAM L12 (            0 REACTIONS)

=> s l12 full

THE ESTIMATED SEARCH COST FOR FILE 'CASREACT' IS 102.30 U.S. DOLLARS

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FULL SEARCH INITIATED 20:15:03 FILE 'CASREACT'

SCREENING COMPLETE -            0 REACTIONS TO VERIFY FROM            0 DOCUMENTS

100.0% DONE            0 VERIFIED            0 HIT RXNS            0 DOCS  
SEARCH TIME: 00.00.01

L14                    0 SEA SSS FUL L12 (            0 REACTIONS)

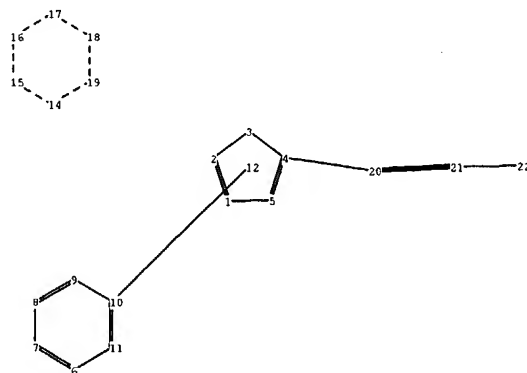
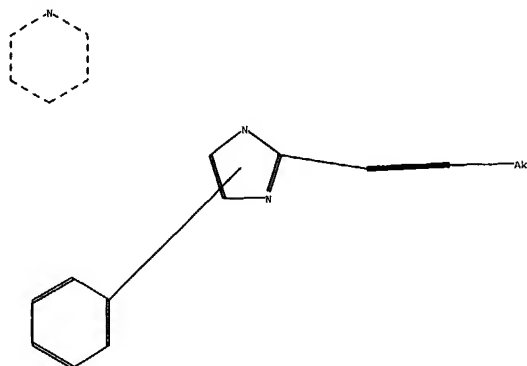
=> log y

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	105.66	428.71

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-0.69

STN INTERNATIONAL LOGOFF AT 20:15:15 ON 01 JUL 2004





n nodes :  
 20 21 22  
 g nodes :  
 1 2 3 4 5 6 7 8 9 10 11 14 15 16 17 18 19  
 n bonds :  
 4-20 20-21 21-22  
 g bonds :  
 1-2 1-5 2-3 3-4 4-5 6-7 6-11 7-8 8-9 9-10 10-11 14-15 14-19 15-16 16-17  
 17-18 18-19  
 t/norm bonds :  
 1-5 2-3 3-4 4-5 14-15 14-19 15-16 16-17 17-18 18-19 21-22  
 t bonds :  
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 6-7 6-11 7-8 8-9 9-10 10-11  
 ated ring systems :  
 containing 1 : 6 : 14 :

h level :  
 1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 11:Atom  
 12:CLASS 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:Atom 20:CLASS 21:CLASS  
 22:CLASS

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NEWS 1 Web Page URLs for STN Seminar Schedule - N. America  
 NEWS 2 "Ask CAS" for self-help around the clock  
 NEWS 3 May 10 PROUSDDR now available on STN  
 NEWS 4 May 19 PROUSDDR: One FREE connect hour, per account, in both May  
 and June 2004  
 NEWS 5 May 12 EXTEND option available in structure searching  
 NEWS 6 May 12 Polymer links for the POLYLINK command completed in REGISTRY  
 NEWS 7 May 17 FRFULL now available on STN  
 NEWS 8 May 27 New UPM (Update Code Maximum) field for more efficient patent  
 SDIs in Caplus  
 NEWS 9 May 27 Caplus super roles and document types searchable in REGISTRY  
 NEWS 10 May 27 Explore APOLLIT with free connect time in June 2004  
 NEWS 11 Jun 22 STN Patent Forums to be held July 19-22, 2004  
 NEWS 12 Jun 28 Additional enzyme-catalyzed reactions added to CASREACT  
 NEWS 13 Jun 28 ANTE, AQUALINE, BIOENG, CIVILENG, ENVIROENG, MECHENG,  
 and WATER from CSA now available on STN(R)

NEWS EXPRESS MARCH 31 CURRENT WINDOWS VERSION IS V7.00A, CURRENT  
 MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),  
 AND CURRENT DISCOVER FILE IS DATED 26 APRIL 2004

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FILE 'HOME' ENTERED AT 19:45:07 ON 01 JUL 2004

=> file reg

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'REGISTRY' ENTERED AT 19:45:15 ON 01 JUL 2004

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STRUCTURE FILE UPDATES: 30 JUN 2004 HIGHEST RN 701907-96-2

DICTIONARY FILE UPDATES: 30 JUN 2004 HIGHEST RN 701907-96-2

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 6, 2004

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Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:

<http://www.cas.org/ONLINE/DBSS/registryss.html>

=>

L1 STRUCTURE UPLOADED

=> l1

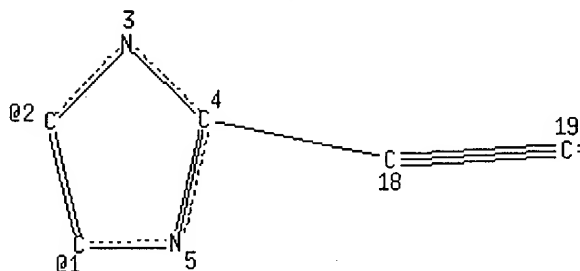
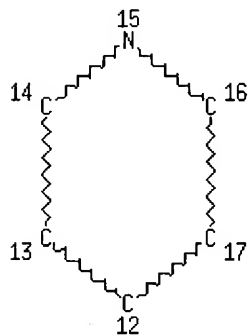
L1 IS NOT A RECOGNIZED COMMAND

The previous command name entered was not recognized by the system. For a list of commands available to you in the current file, enter "HELP COMMANDS" at an arrow prompt (=>).

=> d l1

L1 HAS NO ANSWERS

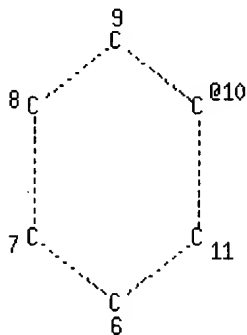
L1 STR



Page 1-A

-----Ak 20

Page 1-B



Page 2-A

VPA 10-1/2 S

NODE ATTRIBUTES:

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NSPEC   IS R      AT   3
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NSPEC   IS R      AT  16
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NSPEC   IS C      AT  18
NSPEC   IS C      AT  19
NSPEC   IS C      AT  20
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MLEVEL   IS CLASS AT  18 19 20
DEFAULT ECLEVEL IS LIMITED

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## GRAPH ATTRIBUTES:

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RSPEC I
NUMBER OF NODES IS  20

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STEREO ATTRIBUTES: NONE

=&gt; s 11

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SAMPLE SEARCH INITIATED 19:48:58 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -      90 TO ITERATE

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100.0% PROCESSED      90 ITERATIONS                2 ANSWERS
SEARCH TIME: 00.00.01

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FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:   1231 TO   2369
PROJECTED ANSWERS:      2 TO     124

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L2 2 SEA SSS SAM L1

=&gt; s 11 full

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THE ESTIMATED SEARCH COST FOR FILE 'REGISTRY' IS 155.00 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N or END:y
FULL SEARCH INITIATED 19:49:02 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -   1628 TO ITERATE

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100.0% PROCESSED    1628 ITERATIONS                35 ANSWERS
SEARCH TIME: 00.00.01

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L3 35 SEA SSS FUL L1

=&gt; file hcaplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	157.52	157.73

FILE 'HCAPLUS' ENTERED AT 19:49:05 ON 01 JUL 2004  
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FILE COVERS 1907 - 1 Jul 2004 VOL 141 ISS 1  
FILE LAST UPDATED: 30 Jun 2004 (20040630/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s l3

L4 16 L3

=> s l4 and burnett, d?/au

392 BURNETT, D?/AU

L5 0 L4 AND BURNETT, D?/AU

=> s l4 and caplen, m?/au

12 CAPLEN, M?/AU

L6 0 L4 AND CAPLEN, M?/AU

=> s l4 and czarniecki, m?/au

50 CZARNIECKI, M?/AU

L7 0 L4 AND CZARNIECKI, M?/AU

=> s l4 and domalksi, m?/au

0 DOMALKSI, M?/AU

L8 0 L4 AND DOMALKSI, M?/AU

=> s l4 and ho, g?/au

280 HO, G?/AU

L9 0 L4 AND HO, G?/AU

=> s tulshian, d?/au

L10 46 TULSHIAN, D?/AU

=> s l10 and l4

L11 0 L10 AND L4

=> s l4 and wu, w?/au

5877 WU, W?/AU

L12 2 L4 AND WU, W?/AU

=> d l12, ibib abs fhitr, 1-2

L12 ANSWER 1 OF 2 HCAPLUS COPYRIGHT 2004 ACS on STN



ACCESSION NUMBER: 1999:714273 HCAPLUS  
 DOCUMENT NUMBER: 132:30503  
 TITLE: RWJ 67657, a potent, orally active inhibitor of p38 mitogen-activated protein kinase  
 AUTHOR(S): Wadsworth, Scott A.; Cavender, Druie E.; Beers, Scott A.; Lalan, Praful; Schafer, Peter H.; Malloy, Elizabeth A.; Wu, Wei; Fahmy, Bohumila; Olini, Gilbert C.; Davis, Janet E.; Pellegrino-Gensey, J. Lee; Wachter, Michael P.; Siekierka, John J.  
 CORPORATE SOURCE: Drug Discovery, The R. W. Johnson Pharmaceutical Research Institute, Raritan, NJ, USA  
 SOURCE: Journal of Pharmacology and Experimental Therapeutics (1999), 291(2), 680-687  
 CODEN: JPETAB; ISSN: 0022-3565  
 PUBLISHER: American Society for Pharmacology and Experimental Therapeutics  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English

AB Tumor necrosis factor- $\alpha$  (TNF- $\alpha$ ), a cytokine secreted by activated monocytes/macrophages and T lymphocytes, has been implicated in several disease states, including rheumatoid arthritis, inflammatory bowel disease, septic shock, and osteoporosis. Monocyte/macrophage prodn. of TNF- $\alpha$  is dependent on the mitogen-activated protein kinase p38. RWJ 67657 (4-[4-(4-fluorophenyl)-1-(3-phenylpropyl)-5-(4-pyridinyl)-1H-imidazol-2-yl]-3-butyn-1-ol) inhibited the release of TNF- $\alpha$  by lipopolysaccharide (a monocyte stimulus)-treated human peripheral blood mononuclear cells with an IC<sub>50</sub> of 3 nM, as well as the release of TNF- $\alpha$  from peripheral blood mononuclear cells treated with the superantigen staphylococcal enterotoxin B (a T cell stimulus), with an IC<sub>50</sub> value of 13 nM. This compd. was approx. 10-fold more potent than the literature std. p38 kinase inhibitor SB 203580 in all p38 dependent in vitro systems tested. RWJ 67657 inhibited the enzymic activity of recombinant p38 $\alpha$  and  $\beta$ , but not  $\gamma$  or  $\delta$ , in vitro and had no significant activity against a variety of other enzymes. In contrast, SB 203580 significantly inhibited the tyrosine kinases p56 lck and c-src (IC<sub>50</sub> = 5  $\mu$ M). RWJ 67657 did not inhibit T cell prodn. of interleukin-2 or interferon- $\gamma$  and did not inhibit T cell proliferation in response to mitogens. RWJ 67657 inhibited TNF- $\alpha$  prodn. in lipopolysaccharide-injected mice (87% inhibition at 50 mg/kg) and in rats (91% inhibition at 25 mg/kg) after oral administration. Based on these favorable biol. properties, RWJ 67657 may have use as a treatment for inflammatory diseases.

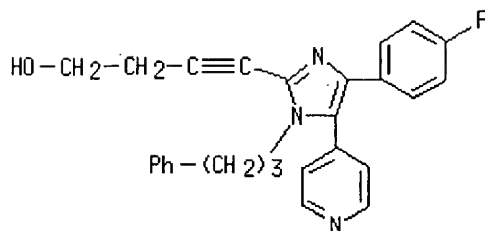
IT 215303-72-3, RWJ 67657

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(RWJ 67657: potent oral inhibitor of p38 mitogen-activated protein kinase)

RN 215303-72-3 HCAPLUS

CN 3-Butyn-1-ol, 4-[4-(4-fluorophenyl)-1-(3-phenylpropyl)-5-(4-pyridinyl)-1H-imidazol-2-yl]- (9CI) (CA INDEX NAME)



102

*Classified Species  
Claim 16 not allowable*

REFERENCE COUNT: 31 THERE ARE 31 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 2 OF 2 HCAPLUS COPYRIGHT 2004 ACS on STN

Full Text Citing References

ACCESSION NUMBER: 1998:709071 HCAPLUS  
DOCUMENT NUMBER: 129:330728  
TITLE: Preparation of substituted imidazoles useful in the treatment of inflammatory diseases  
INVENTOR(S): Beers, Scott A.; Malloy, Elizabeth; Wachter, Michael P.; Wu, Wei  
PATENT ASSIGNEE(S): Ortho-McNeil Corporation, Inc., USA  
SOURCE: PCT Int. Appl., 50 pp.  
CODEN: PIXXD2  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9847892	A1	19981029	WO 1998-US7910	19980417
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
AU 9871382	A1	19981113	AU 1998-71382	19980417
US 5965583	A	19991012	US 1998-62304	19980417
TR 9902622	T2	20000522	TR 1999-9902622	19980417
BR 9808998	A	20000808	BR 1998-8998	19980417
EP 1028954	A1	20000823	EP 1998-918463	19980417
EP 1028954	B1	20030702		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
NZ 500447	A	20010928	NZ 1998-500447	19980417
JP 2001522357	T2	20011113	JP 1998-546231	19980417
AT 244234	E	20030715	AT 1998-918463	19980417
PT 1028954	T	20031128	PT 1998-918463	19980417
RU 2222534	C2	20040127	RU 1999-122164	19980417
ES 2202840	T3	20040401	ES 1998-918463	19980417
ZA 9803451	A	19991025	ZA 1998-3451	19980423
US 6214830	B1	20010410	US 1999-295156	19990420
NO 9905095	A	19991209	NO 1999-5095	19991019
MX 9909811	A	20000731	MX 1999-9811	19991025
US 6521655	B1	20030218	US 2000-705508	20001103
PRIORITY APPLN. INFO.:				
			US 1997-44252P	P 19970424
			US 1998-62304	A3 19980417

WO 1998-US7910

W 19980417

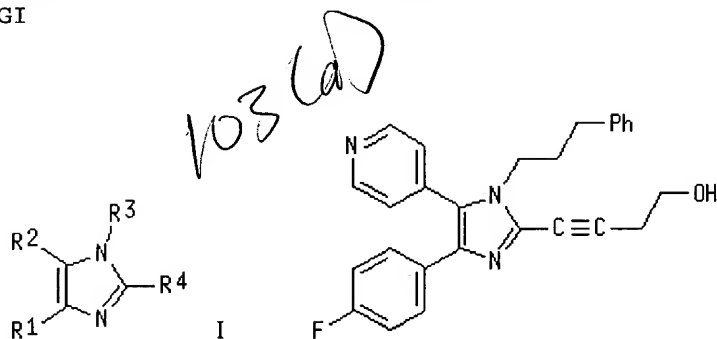
US 1999-295156

A3 19990420

OTHER SOURCE(S):

MARPAT 129:330728

GI



AB The title compds. [I; R1 = (un)substituted Ph, 5-6 membered heteroaryl; R2 = (un)substituted Ph, 5-6 membered heteroaryl; R3 = H, SEM, aryloxy carbonyl, etc.; R4 = A-(CH<sub>2</sub>)<sub>q</sub>X (wherein A = vinylene, ethynylene, C(:NOR5); R5 = H, C1-5 alkyl, Ph, Ph(C1-5 alkyl); q = 0-9; X = H, OH, vinyl, etc.); with the proviso that if A = C(:NOR5), q = 0 and X = H, R3 may not be SEM] which inhibit the prodn. of a no. of inflammatory cytokines, and are useful in the treatment of diseases assocd. with overprodn. of inflammatory cytokines, were prepd. Thus, coupling 4-(4-fluorophenyl)-2-iodo-1-(3-phenylpropyl)-5-(4-pyridyl)imidazole with 3-butyn-1-ol in the presence of Et<sub>3</sub>N and Pd(II)(PPh<sub>3</sub>)<sub>2</sub>(OAc)<sub>2</sub> in CH<sub>2</sub>Cl<sub>2</sub> afforded the title compd. II which showed IC<sub>50</sub> of 7 nM against the prodn. of IL-1 $\beta$  and IC<sub>50</sub> of 3.0 nM against TNF- $\alpha$  prodn.

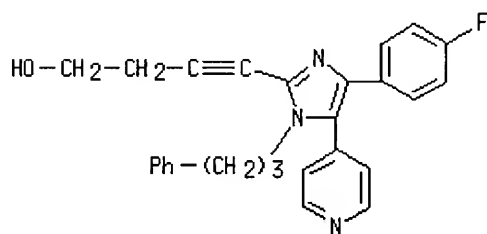
IT 215303-72-3P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)

(prepn. of substituted imidazoles for the treatment of inflammatory diseases)

RN 215303-72-3 HCAPLUS

CN 3-Butyn-1-ol, 4-[4-(4-fluorophenyl)-1-(3-phenylpropyl)-5-(4-pyridinyl)-1H-imidazol-2-yl]- (9CI) (CA INDEX NAME)



102 (b)

REFERENCE COUNT:

3

THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=&gt; d his

(FILE 'HOME' ENTERED AT 19:45:07 ON 01 JUL 2004)

FILE 'REGISTRY' ENTERED AT 19:45:15 ON 01 JUL 2004

L1 STRUCTURE UPLOADED

L2 2 S L1

L3 35 S L1 FULL



FILE 'HCAPLUS' ENTERED AT 19:49:05 ON 01 JUL 2004

L4 16 S L3  
 L5 0 S L4 AND BURNETT, D?/AU  
 L6 0 S L4 AND CAPLEN, M?/AU  
 L7 0 S L4 AND CZARNIECKI, M?/AU  
 L8 0 S L4 AND DOMALKSI, M?/AU  
 L9 0 S L4 AND HO, G?/AU  
 L10 46 S TULSHIAN, D?/AU  
 L11 0 S L10 AND L4  
 L12 2 S L4 AND WU, W?/AU

=> s l4 not 12

1264343 12

L13 13 L4 NOT 12

=> d l13, ibib abs fhitr, 1-13

L13 ANSWER 1 OF 13 HCAPLUS COPYRIGHT 2004 ACS on STN

Full Text	Citing References
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ACCESSION NUMBER:	2003:998114 HCAPLUS
DOCUMENT NUMBER:	140:22524
TITLE:	Therapy for chronic obstructive pulmonary disease in the 21st century
AUTHOR(S):	Donnelly, Louise E.; Rogers, Duncan F.
CORPORATE SOURCE:	Thoracic Medicine, National Heart & Lung Institute, Imperial College, London, UK
SOURCE:	Drugs (2003), 63(19), 1973-1998 CODEN: DRUGAY; ISSN: 0012-6667
PUBLISHER:	Adis International Ltd.
DOCUMENT TYPE:	Journal; General Review
LANGUAGE:	English

AB A review. Chronic obstructive pulmonary disease (COPD) is a common, smoking-related, severe respiratory condition characterized by progressive, irreversible airflow limitation. Current treatment of COPD is symptomatic, with no drugs capable of halting the relentless progression of airflow obstruction. Better understanding of the airway inflammation, oxidative stress and alveolar destruction that characterize COPD has delineated new disease targets, with consequent identification of novel compds. with therapeutic potential. These new drugs include aids to smoking cessation (e.g. bupropion) and improvements to existing therapies, for example long-acting rather than short-acting bronchodilators, as well as combination therapy. New antiproteases include acyl-enzyme and transition state inhibitors of neutrophil elastase (e.g. sivelestat and ONO-6818), matrix metalloprotease inhibitors (e.g. batimastat), cathepsin inhibitors and peptide protease inhibitors (e.g. DX-890 [EPI-HNE-4] and trappin-2). New antioxidants include superoxide dismutase mimetics (e.g. AEOL-10113) and spin trap compds. (e.g. N-tert-butyl-( $\alpha$ -phenylnitron)). New anti-inflammatory interventions include phosphodiesterase-4 inhibitors (e.g. cilomilast), inhibitors of tumor necrosis factor- $\alpha$  (e.g. humanised monoclonal antibodies), adenosine A2a receptor agonists (e.g. CGS-21680), adhesion mol. inhibitors (e.g. bimosiamose [TBC1269]), inhibitors of nuclear factor- $\kappa$ B (e.g. the naturally occurring compds. hypoxanthine and (-)-epigallocatechin-3-gallate) and activators of histone deacetylase (e.g. theophylline). There are also selective inhibitors of specific extracellular mediators such as chemokines (e.g. CXCR2 and CCR2 antagonists) and leukotriene B4 (e.g. SB201146), and of intracellular signal transduction mols. such as p38 mitogen activated protein kinase (e.g. RWJ67657) and phosphoinositide

3-kinase. Retinoids may be one of the few potential treatments capable of reversing alveolar destruction in COPD, and a no. of compds. are in clin. trial (e.g. all-trans-retinoic acid). Talniflumate (MSI-1995), an inhibitor of human calcium-activated chloride channels, has been developed to treat mucous hypersecretion. In addn., the purinoceptor P2Y2 receptor agonist diquafosol (INS365) is undergoing clin. trials to increase mucus clearance. The challenge to transferral of these new compds. from preclin. research to disease management is the design of effective clin. trials. The current scarcity of well characterized surrogate markers predicts that long-term studies in large nos. of patients will be needed to monitor changes in disease progression.

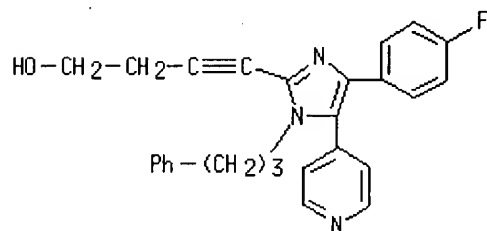
IT 215303-72-3, RWJ67657

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(therapy for smoking-related chronic obstructive pulmonary disease)

RN 215303-72-3 HCAPLUS

CN 3-Butyn-1-ol, 4-[4-(4-fluorophenyl)-1-(3-phenylpropyl)-5-(4-pyridinyl)-1H-imidazol-2-yl]- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 205 THERE ARE 205 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE REFORMAT

L13 ANSWER 2 OF 13 HCAPLUS COPYRIGHT 2004 ACS on STN

Full Text Citing References

ACCESSION NUMBER: 2003:308604 HCAPLUS  
DOCUMENT NUMBER: 139:239612  
TITLE: Single-dose pharmacokinetics and pharmacodynamics of RWJ 67657, a specific p38 mitogen-activated protein kinase inhibitor: a first-in-human study  
AUTHOR(S): Parasrampur, Dolly A.; de Boer, Peter; Desai-Krieger, Daksha; Chow, Andrew T.; Jones, C. Richard  
CORPORATE SOURCE: Clinical Drug Evaluation, Johnson & Johnson Pharmaceutical R&D, Raritan, NJ, USA  
SOURCE: Journal of Clinical Pharmacology (2003), 43(4), 406-413  
CODEN: JCPCBR; ISSN: 0091-2700  
PUBLISHER: Sage Publications  
DOCUMENT TYPE: Journal  
LANGUAGE: English

AB The objective of this study was to investigate the pharmacokinetics and ex vivo pharmacodynamics of increasing doses of RWJ 67657, along with the effect of food at one dose level in a first-in-human (FIH) study. This was a placebo-controlled, double-blind, randomized trial in healthy male subjects. Subjects received increasing doses of RWJ 67657 or placebo as a single oral dose (0.25-30 mg/kg) under fasting conditions. The effect of food was investigated for the 10-mg/kg dose. Plasma concns. of RWJ 67657 were measured over a period of 48 h using a validated LC-MS/MS method. To evaluate the pharmacodynamics of RWJ 67657, inhibition of cytokine prodn.

was monitored from ex vivo-stimulated polymorphonuclear blood cells (PBMCS). Pharmacokinetic/pharmacodynamic modeling was used to characterize the inhibitory activity of RWJ 67657. RWJ 67657 was rapidly absorbed (mean tmax = 0.6-2.5 h). The pharmacokinetics of RWJ 67657 appear to be nonlinear with respect to single-dose administration of the investigative formulation. Coadministration of food did not have a significant effect on half-life or time to peak concn. (tmax) but decreased the exposure. Mean Cmax values in the presence of food were almost 50% lower than during fasting (542 vs. 1283 ng/mL), and the AUC decreased from 2832 to 1904 ng·h/mL with food. RWJ 67657 inhibited TNF- $\alpha$ , IL-8, and IL-6 in a concn.-dependent manner with mean IC50 values of 0.18  $\mu$ M, 0.04  $\mu$ M, and 0.43  $\mu$ M, resp. At 20 mg/kg, the median inhibition was greater than 85%. There were no significant adverse effects assocd. with single doses of this drug. This study demonstrates that RWJ 67657 has acceptable safety and pharmacokinetics to warrant further investigation in a repeat-dose setting. In addn., the early detn. of effect on biomarkers suggests potential efficacy in diseases mediated by proinflammatory and inflammatory cytokines.

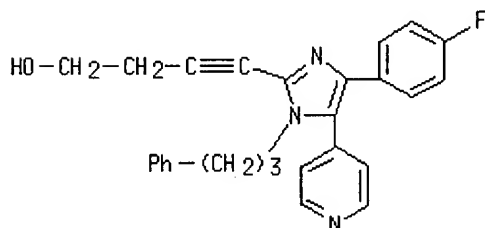
IT 215303-72-3, RWJ 67657

RL: PKT (Pharmacokinetics); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(single-dose pharmacokinetics and pharmacodynamics of RWJ 67657)

RN 215303-72-3 HCAPLUS

CN 3-Butyn-1-ol, 4-[4-(4-fluorophenyl)-1-(3-phenylpropyl)-5-(4-pyridinyl)-1H-imidazol-2-yl]- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

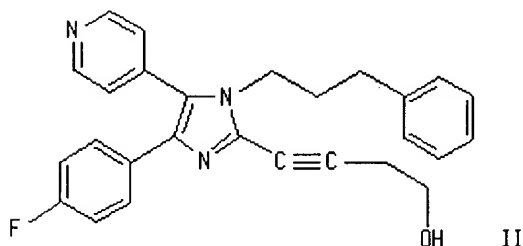
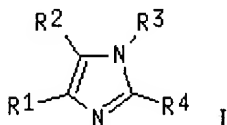
L13 ANSWER 3 OF 13 HCAPLUS COPYRIGHT 2004 ACS on STN

Full Text Citing References

ACCESSION NUMBER: 2002:754379 HCAPLUS  
DOCUMENT NUMBER: 137:263034  
TITLE: Process for the preparation of tetrasubstituted imidazole derivatives and novel crystalline structures thereof  
INVENTOR(S): Zhong, Hua; Dubberke, Silke; Muller, Stefan; Rossler, Armin; Schultz, Thomas W.; Korey, Daniel J.; Otten, Thomas; Walker, Donald G.; Abdel-Magid, Abdel  
PATENT ASSIGNEE(S): Ortho-Mcneil Pharmaceutical, Inc., USA  
SOURCE: PCT Int. Appl., 55 pp.  
CODEN: PIXXD2  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

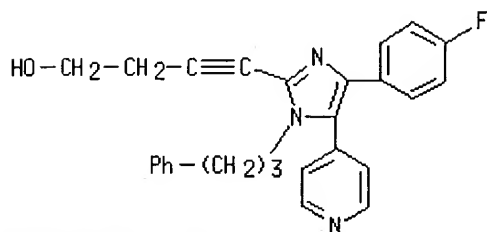
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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WO 2002076974      A2      20021003      WO 2002-US5419      20020222  
 WO 2002076974      A3      20030213  
 W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,  
 CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,  
 GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,  
 LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH,  
 PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ,  
 UA, UG, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM  
 RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH,  
 CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR,  
 BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG  
 US 2003045723      A1      20030306      US 2002-81553      20020222  
 BR 2002008462      A      20040302      BR 2002-8462      20020222  
 EP 1392678      A2      20040303      EP 2002-753758      20020222  
 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,  
 IE, SI, LT, LV, FI, RO, MK, CY, AL, TR  
 PRIORITY APPLN. INFO.:      US 2001-278607P      P      20010326  
    US 2002-81553      A      20020222  
    WO 2002-US5419      W      20020222  
 OTHER SOURCE(S):      CASREACT 137:263034; MARPAT 137:263034  
 GI



AB The present invention relates to a process for the prepn. of I [R1 = (un)substituted Ph; R2 = (un)substituted phenyl; R3 = H, aryl; R4 = C≡C(CH<sub>2</sub>)<sub>0-9</sub>-X; X = H, OH, vinyl, etc.]. For instance, the dimethoxy acetal of 4-pyridinecarboxaldehyde was lithiated (THF, n-BuLi, -15°) and added to the N-TMS-imine deriv. of 4-fluorobenzaldehyde (prepn. given) to afford 2,2-Dimethoxy-2-(4-pyridyl)-1-(4-fluorophenyl)ethanamine in 79% yield. This intermediate was acylated with N-(3-phenylpropyl)-1H-imidazole-1-carboxamide (prepn. given), to give the corresponding urea. This was treated with formic acid at 95-100° for 24 h resulting in hydrolysis of the ketal with concomitant cyclization to the corresponding imidazolin-2-one. The imidazolin-2-one was converted to the bromide (sulfolane, POBr<sub>3</sub>, 130°, 3 h, 62%) and subsequently coupled to 3-butyn-1-ol to give II in 75% yield. Two polymorphs of II were characterized by XRPD.  
 IT 215303-72-3P, 4-(4-Fluorophenyl)-2-(4-hydroxy-1-butynyl)-1-(3-Phenylpropyl)-5-(4-Pyridyl)imidazole  
 RL: SPN (Synthetic preparation); PREP (Preparation)  
 (process for prepn. of tetrasubstituted imidazole derivs. and novel cryst. structures thereof)

RN 215303-72-3 HCAPLUS  
 CN 3-Butyn-1-ol, 4-[4-(4-fluorophenyl)-1-(3-phenylpropyl)-5-(4-pyridinyl)-1H-imidazol-2-yl]- (9CI) (CA INDEX NAME)



L13 ANSWER 4 OF 13 HCAPLUS COPYRIGHT 2004 ACS on STN

Full Text Citing References

ACCESSION NUMBER: 2002:594816 HCAPLUS  
 DOCUMENT NUMBER: 137:135120  
 TITLE: Use of CSBP/p38 inhibitors for the treatment of inflammation-enhanced cough  
 INVENTOR(S): Griswold, Don E.; Underwood, David C.  
 PATENT ASSIGNEE(S): Smithkline Beecham Corporation, USA  
 SOURCE: PCT Int. Appl., 20 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

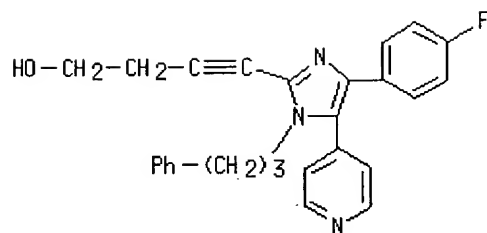
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002060869	A2	20020808	WO 2001-US50629	20011019
WO 2002060869	A3	20030103		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
EP 1337255	A2	20030827	EP 2001-997150	20011019
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
US 2004097473	A1	20040520	US 2003-399579	20030418
PRIORITY APPLN. INFO.: US 2000-241564P P 20001019				
WO 2001-US50629 W 20011019				

AB The invention discloses the use of a CSBP/p38 inhibitor for the treatment and prophylaxis of inflammation-enhanced cough in a mammal in need thereof.

IT 215303-72-3, RWJ 67657

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
 (CSBP/p38 inhibitors for treatment of inflammation-enhanced cough)

RN 215303-72-3 HCAPLUS  
 CN 3-Butyn-1-ol, 4-[4-(4-fluorophenyl)-1-(3-phenylpropyl)-5-(4-pyridinyl)-1H-imidazol-2-yl]- (9CI) (CA INDEX NAME)



L13 ANSWER 5 OF 13 HCAPLUS COPYRIGHT 2004 ACS on STN

Full Text	Citing References
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ACCESSION NUMBER: 2002:344594 HCAPLUS

DOCUMENT NUMBER: 137:345766

TITLE: Inhibition of p38 mitogen-activated protein kinase: dose-dependent suppression of leukocyte and endothelial response after endotoxin challenge in humans

AUTHOR(S): Fijen, Jan-Willem; Tulleken, Jaap E.; Kobold, Anneke C. Muller; de Boer, Peter; van der Werf, Tjip S.; Ligtenberg, Jack J. M.; Spanjersberg, Rob; Zijlstra, Jan G.

CORPORATE SOURCE: Intensive and Respiratory Care Unit, University Hospital Groningen, Groningen, Neth.

SOURCE: Critical Care Medicine (2002), 30(4), 841-845  
CODEN: CCMDC7; ISSN: 0090-3493

PUBLISHER: Lippincott Williams &amp; Wilkins

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Objective: We studied the activity of a single oral dose of RWJ-67657, a synthetic p38 mitogen-activated protein kinase inhibitor, in preventing dual leukocyte/endothelial activation after endotoxin infusion in healthy volunteers. Design: Prospective placebo-controlled study. Setting: Intensive care unit at a university medical center. Subjects: Twenty-one healthy male volunteers. Interventions: Endotoxin (4 ng/kg) as a 1-min infusion. According to randomization, the volunteers received placebo (n = 6) or 1400 mg (n = 4), 700 mg (n = 6), or 350 mg (n = 5) of RWJ-67657. Measurements and Main Results: Neutrophil activation was investigated by analyzing the extent of membrane expression of adhesion markers by calibrated flow cytometry. Circulating intercellular adhesion mol.-1 and E-selectin were measured by enzyme-linked immunosorbent assays. The endotoxin-induced shedding of L-selectin was diminished in a dose-dependent manner (p < .0001). High-dose RWJ-67657 prevented up-regulation of the integrins CD11b (p < .01) and CD 66b (p < .01) on neutrophils. The endotoxin-induced increase in circulating intercellular adhesion mol.-1 and circulation E-selectin was almost completely prevented by high-dose RWJ-67657. Conclusion: A single oral dose of RWJ-67657 prevented neutrophil and endothelial activation after endotoxin infusion.

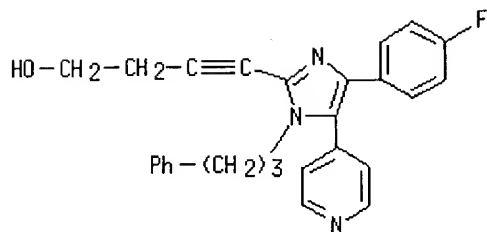
IT 215303-72-3, RWJ-67657

RL: DMA (Drug mechanism of action); PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(RWJ67657, p38 mitogen-activated protein kinase inhibitor, in preventing leukocyte/endothelial activation after endotoxin challenge in humans)

RN 215303-72-3 HCAPLUS

CN 3-Butyn-1-ol, 4-[4-(4-fluorophenyl)-1-(3-phenylpropyl)-5-(4-pyridinyl)-1H-imidazol-2-yl]- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 27 THERE ARE 27 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

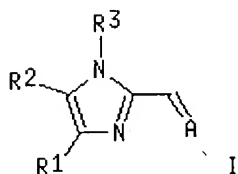
L13 ANSWER 6 OF 13 HCAPLUS COPYRIGHT 2004 ACS on STN

Full Text Citing References

ACCESSION NUMBER: 2002:314935 HCAPLUS  
 DOCUMENT NUMBER: 136:325546  
 TITLE: Preparation of substituted imidazoles useful in the treatment of inflammatory diseases  
 INVENTOR(S): Beers, Scott; Wachter, Michael P.  
 PATENT ASSIGNEE(S): Ortho-McNeil Pharmaceutical, Inc., USA  
 SOURCE: PCT Int. Appl., 42 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002032894	A1	20020425	WO 2001-US32436	20011017
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2002024402	A5	20020429	AU 2002-24402	20011017
EP 1337526	A1	20030827	EP 2001-987750	20011017
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
JP 2004511554	T2	20040415	JP 2002-536276	20011017
PRIORITY APPLN. INFO.:				
			US 2000-241256P	P 20001018
			WO 2001-US32436	W 20011017

OTHER SOURCE(S): MARPAT 136:325546  
 GI



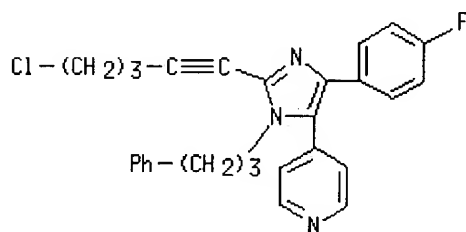
AB The title imidazoles I [R1 = Ph, heteroaryl; R2 = Ph, heteroaryl; R3 = H, alkyl, arylalkyl, aminoalkyl, etc.; A = seven member heterocyclyl ring] were prepd. E. g., 4-[4-(4-fluorophenyl)-2-[(E)-(1-methyl-2-pyrrolidinylidene)methyl]-1-(3-phenylpropyl)-1H-imidazol-5-yl]pyridine was prepd. The compds. of the invention modulate the prodn. of a no. of inflammatory cytokines and are useful in the treatment of diseases assocd. with the overpopulation of inflammatory cytokines.

IT 215303-87-0

RL: RCT (Reactant); RACT (Reactant or reagent)  
(prepn. of substituted imidazoles useful in the treatment of inflammatory diseases)

RN 215303-87-0 HCAPLUS

CN Pyridine, 4-[2-(5-chloro-1-pentynyl)-4-(4-fluorophenyl)-1-(3-phenylpropyl)-1H-imidazol-5-yl]- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L13 ANSWER 7 OF 13 HCAPLUS COPYRIGHT 2004 ACS on STN

Full Text Citing References

ACCESSION NUMBER: 2002:314904 HCAPLUS  
DOCUMENT NUMBER: 136:319434  
TITLE: Use of p38 inhibitors for the treatment of smoke inhalation  
INVENTOR(S): Griswold, Don E.; Underwood, David C.  
PATENT ASSIGNEE(S): Smithkline Beecham Corporation, USA  
SOURCE: PCT Int. Appl., 15 pp.  
CODEN: PIXXD2  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002032862	A2	20020425	WO 2001-US50429	20011019
WO 2002032862	A3	20020822		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
EP 1337250	A2	20030827	EP 2001-987743	20011019
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR			
JP 2004511542	T2	20040415	JP 2002-536046	20011019



US 2004092532 A1 20040513 US 2003-399580 20030418  
 PRIORITY APPLN. INFO.: US 2000-241568P P 20001019  
 WO 2001-US50429 W 20011019

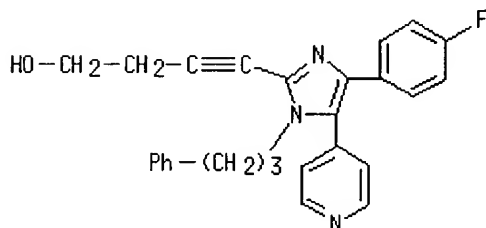
AB The present invention is directed to the novel use of a CSBP/p38 inhibitor for the treatment, including prophylaxis of smoke induced pathol. resulting from acute and chronic inflammation in the lung. In the example provided, the p38 MAP kinase inhibitor trans-1-(4-hydroxycyclohexyl)-4-(4-fluorophenyl)-5-[(2-methoxy)pyrimidin-4-yl]imidazole inhibited airway inflammation caused by tobacco smoke inhalation in mice. The p38 MAP kinase inhibitors are also useful in inflammations caused by other types of smoke and in such inflammations exacerbated by underlying conditions such as asthma and pneumonia.

IT 215303-72-3, RWJ 67657

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
 (use of p38 inhibitors combined with other agents for treatment of airway inflammation from smoke inhalation)

RN 215303-72-3 HCAPLUS

CN 3-Butyn-1-ol, 4-[4-(4-fluorophenyl)-1-(3-phenylpropyl)-5-(4-pyridinyl)-1H-imidazol-2-yl]- (9CI) (CA INDEX NAME)



L13 ANSWER 8 OF 13 HCAPLUS COPYRIGHT 2004 ACS on STN

Full Text Citing References

ACCESSION NUMBER: 2001:858511 HCAPLUS  
 DOCUMENT NUMBER: 136:130624  
 TITLE: Kinetics of small molecule inhibitor binding to p38 kinase  
 AUTHOR(S): Thurmond, Robin L.; Wadsworth, Scott A.; Schafer, Peter H.; Zivin, Robert A.; Siekierka, John J.  
 CORPORATE SOURCE: R.W. Johnson Pharmaceutical Research Institute, San Diego, CA, 92121, USA  
 SOURCE: European Journal of Biochemistry (2001), 268(22), 5747-5754  
 CODEN: EJBCAI; ISSN: 0014-2956  
 PUBLISHER: Blackwell Science Ltd.  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English

AB P38 mitogen-activated protein kinase (MAPK) (p38/p38- $\alpha$ /CSBP2/RK) has been implicated in the regulation of many pro-inflammatory pathways. Because of this, it has received much attention as a potential drug target for controlling diseases such as rheumatoid arthritis, endotoxic shock, inflammatory bowel disease, osteoporosis, and many others. A no. of small mol. inhibitors of this kinase have been described, and in this paper we have used surface plasmon resonance to directly measure and quantitate their binding to p38. Despite the relatively low mol. mass ( $\approx$  400 Da) of these inhibitors, specific binding can be obsd. For the two most potent inhibitors studied, SB 203580 and RWJ 67657, dissocn. consts.,  $K_d$ 's, of 22 and 10 nM, resp., were obtained. These values closely match the  $IC_{50}$  values obsd. in a cell-based  $TNF\alpha$  release assay implying

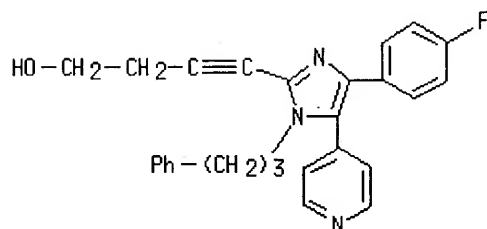
that p38 plays a major role in TNF $\alpha$  release. The assocn. and dissocn. rates for the binding of these inhibitors to p38 have also been quantitated. SB 203580 and RWJ 67657 have very similar assocn. rates of around  $8 \times 10^5 \text{ M}^{-1} \cdot \text{s}^{-1}$ , and the differences in affinity are detd. by different dissocn. rates. The weaker binding compds. have dissocn. rates similar to SB 203580, but the assocn. rates vary by an order of magnitude or more. The direct measurement of compds. binding to p38 may help in understanding the difference between potency and efficacy for these inhibitors. This in turn may yield clues on how to develop better inhibitors.

IT 215303-72-3, RWJ 67657

RL: BSU (Biological study, unclassified); BIOL (Biological study)  
(RWJ 67657; kinetics of small mol. inhibitor binding to p38 kinase)

RN 215303-72-3 HCAPLUS

CN 3-Butyn-1-ol, 4-[4-(4-fluorophenyl)-1-(3-phenylpropyl)-5-(4-pyridinyl)-1H-imidazol-2-yl]- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 30 THERE ARE 30 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L13 ANSWER 9 OF 13 HCAPLUS COPYRIGHT 2004 ACS on STN

Full Text Citing References

ACCESSION NUMBER: 2001:672214 HCAPLUS  
DOCUMENT NUMBER: 135:221314  
TITLE: Use of kinase inhibitors for treating neurodegenerative diseases  
INVENTOR(S): Zawada, Michael; Heidenreich, Kim; Freed, Curt  
PATENT ASSIGNEE(S): USA  
SOURCE: U.S., 36 pp.  
CODEN: USXXAM  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6288089	B1	20010911	US 1999-469980	19991221
PRIORITY APPLN. INFO.:			US 1998-113263P	P 19981221

AB Methods are provided for treating neurodegenerative diseases, including but not limited to Parkinson's disease. In particular, the invention provides methods using the administration of pyridyl imidazoles having simultaneous inhibitory activity towards p38 mitogen-activated protein (MAP) kinase and c-jun-N-terminal kinase (JNK). The invention also provides methods for preventing apoptosis of dopamine neurons using pyridyl imidazoles. The invention further provides methods for the treatment of neurodegenerative diseases, including but not limited to Parkinson's disease.

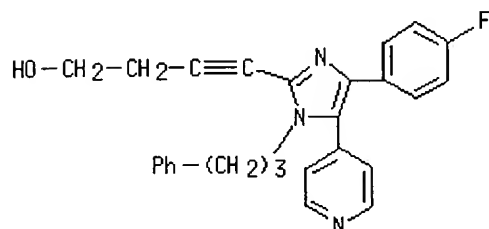
IT 215303-72-3, RWJ 67657

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(kinase inhibitors for treating neurodegenerative diseases)

RN 215303-72-3 HCAPLUS

CN 3-Butyn-1-ol, 4-[4-(4-fluorophenyl)-1-(3-phenylpropyl)-5-(4-pyridinyl)-1H-imidazol-2-yl]- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L13 ANSWER 10 OF 13 HCAPLUS COPYRIGHT 2004 ACS on STN



ACCESSION NUMBER: 2001:439750 HCAPLUS

DOCUMENT NUMBER: 136:193857

TITLE: Suppression of the clinical and cytokine response to endotoxin by RWJ-67657, a p38 mitogen-activated protein-kinase inhibitor, in healthy human volunteers  
 AUTHOR(S): Fijen, J. W.; Zijlstra, J. G.; De Boer, P.; Spanjersberg, R.; Tervaert, J. W. Cohen; Van Der Werf, T. S.; Ligtenberg, J. J. M.; Tulleken, J. E.  
 CORPORATE SOURCE: Intensive and Respiratory Care Unit, University Hospital, Groningen, 9700 RB, Neth.  
 SOURCE: Clinical and Experimental Immunology (2001), 124(1), 16-20

CODEN: CEXIAL; ISSN: 0009-9104

PUBLISHER: Blackwell Science Ltd.

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Sepsis resulting in multiorgan failure and death is still a major problem in intensive care medicine, despite extensive attempts to interfere in the supposed underlying mechanism of a deranged immune system. This is not only due to the persistent lacunae in knowledge about the immune system in sepsis but also due to the lack of sufficient instruments for intervention. Inhibitors of the p38 mitogen-activated protein kinase (p38MAPK) have been used to study the signalling pathway of the immune response. In vitro and animal studies have demonstrated that blocking p38MAPK could mitigate the pro-inflammatory response and improve survival after endotoxemia. Using an endotoxemia model in healthy human volunteers, the authors evaluated the attenuation of clin. and cytokine response to endotoxin after inhibition of p38MAPK by an oral dose of RWJ-67657, a pyridinyl imidazole. They measured the clin. parameters temp., blood pressure, and heart rate. The proinflammatory cytokines tumor necrosis factor  $\alpha$ , interleukin 6, and interleukin 8 were measured by ELISA at various points during a 24-h period. Drug toxicity was evaluated by routine clin. and lab. exams. After a single dose of RWJ-67657, the temp. and blood pressure response remained at the basal level. The inhibition of TNF  $\alpha$ , IL 6, and IL 8 response was dose-dependent. With the max. dosage, redn. in peak serum levels of the

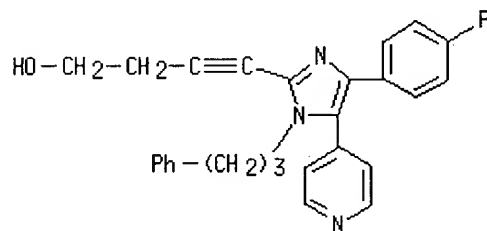
proinflammatory cytokines was >90%. There was no drug-related toxicity. Interpretation: Inhibition of p38MAPK by RWJ-67657 might be a tool to intervene in the deranged immune response in sepsis and other inflammatory diseases.

IT 215303-72-3, RWJ-67657

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
(suppression of clin. and cytokine response to endotoxin by RWJ-67657 in humans)

RN 215303-72-3 HCAPLUS

CN 3-Butyn-1-ol, 4-[4-(4-fluorophenyl)-1-(3-phenylpropyl)-5-(4-pyridinyl)-1H-imidazol-2-yl]- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 27 THERE ARE 27 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L13 ANSWER 11 OF 13 HCAPLUS COPYRIGHT 2004 ACS on STN

Full Text Citing References

ACCESSION NUMBER: 2001:208067 HCAPLUS  
DOCUMENT NUMBER: 134:242657  
TITLE: Use of CSAIDs (cytokine suppressive antiinflammatory drugs) in rhinovirus infection  
INVENTOR(S): Dillon, Susan B.; Griego, Sandra D.  
PATENT ASSIGNEE(S): Smithkline Beecham Corp., USA  
SOURCE: PCT Int. Appl., 30 pp.  
CODEN: PIXXD2  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001019322	A2	20010322	WO 2000-US25386	20000915
WO 2001019322	A3	20011004		
W: AE, AL, AU, BA, BB, BG, BR, BZ, CA, CN, CZ, DZ, EE, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KP, KR, LC, LK, LR, LT, LV, MA, MG, MK, MN, MX, MZ, NO, NZ, PL, RO, SG, SI, SK, SL, TR, TT, TZ, UA, US, UZ, VN, YU, ZA, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
AU 2000075845	A5	20010417	AU 2000-75845	20000915
EP 1223924	A2	20020724	EP 2000-965060	20000915
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL				
TR 200200673	T2	20021223	TR 2002-200200673	20000915
JP 2003516314	T2	20030513	JP 2001-522960	20000915
BR 2000014041	A	20030715	BR 2000-14041	20000915
ZA 2002002060	A	20030312	ZA 2002-2060	20020313
NO 2002001301	A	20020516	NO 2002-1301	20020315

## PRIORITY APPLN. INFO.:

US 1999-154494P P 19990917  
WO 2000-US25386 W 20000915

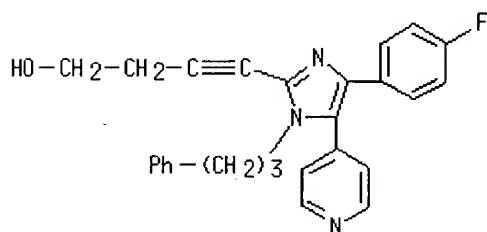
AB The present invention is directed to the novel use of a CSBP/p38 kinase inhibitor for the treatment of symptoms of the common cold and the exacerbation of symptoms assocd. therewith in humans. The effect of a compd. trans-1-(4-hydroxycyclohexyl)-4-(4-fluorophenyl)-5-[(2-methoxy)pyrimidin-4-yl]imidazole on the rhinovirus-induced cytokine prodn. by epithelial cells was examd.

IT 215303-72-3, RWJ 67657

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)  
(cytokine suppressive antiinflammatory drugs (CSAIDs) for treatment of rhinovirus infection)

RN 215303-72-3 HCAPLUS

CN 3-Butyn-1-ol, 4-[4-(4-fluorophenyl)-1-(3-phenylpropyl)-5-(4-pyridinyl)-1H-imidazol-2-yl]- (9CI) (CA INDEX NAME)



L13 ANSWER 12 OF 13 HCAPLUS COPYRIGHT 2004 ACS on STN

Full Text Citing References

ACCESSION NUMBER: 1999:714273 HCAPLUS  
DOCUMENT NUMBER: 132:30503  
TITLE: RWJ 67657, a potent, orally active inhibitor of p38 mitogen-activated protein kinase  
AUTHOR(S): Wadsworth, Scott A.; Cavender, Druie E.; Beers, Scott A.; Lalan, Praful; Schafer, Peter H.; Malloy, Elizabeth A.; Wu, Wei; Fahmy, Bohumila; Olini, Gilbert C.; Davis, Janet E.; Pellegrino-Gensey, J. Lee; Wachter, Michael P.; Siekierka, John J.  
CORPORATE SOURCE: Drug Discovery, The R. W. Johnson Pharmaceutical Research Institute, Raritan, NJ, USA  
SOURCE: Journal of Pharmacology and Experimental Therapeutics (1999), 291(2), 680-687  
CODEN: JPETAB; ISSN: 0022-3565  
PUBLISHER: American Society for Pharmacology and Experimental Therapeutics  
DOCUMENT TYPE: Journal  
LANGUAGE: English

AB Tumor necrosis factor- $\alpha$  (TNF- $\alpha$ ), a cytokine secreted by activated monocytes/macrophages and T lymphocytes, has been implicated in several disease states, including rheumatoid arthritis, inflammatory bowel disease, septic shock, and osteoporosis. Monocyte/macrophage prodn. of TNF- $\alpha$  is dependent on the mitogen-activated protein kinase p38. RWJ 67657 (4-[4-(4-fluorophenyl)-1-(3-phenylpropyl)-5-(4-pyridinyl)-1H-imidazol-2-yl]-3-butyn-1-ol) inhibited the release of TNF- $\alpha$  by lipopolysaccharide (a monocyte stimulus)-treated human peripheral blood mononuclear cells with an IC50 of 3 nM, as well as the release of TNF- $\alpha$  from peripheral blood mononuclear cells treated with the superantigen staphylococcal enterotoxin B (a T cell stimulus), with an IC50 value of 13 nM. This compd. was approx. 10-fold more potent than the

literature std. p38 kinase inhibitor SB 203580 in all p38 dependent in vitro systems tested. RWJ 67657 inhibited the enzymic activity of recombinant p38 $\alpha$  and  $\beta$ , but not  $\gamma$  or  $\delta$ , in vitro and had no significant activity against a variety of other enzymes. In contrast, SB 203580 significantly inhibited the tyrosine kinases p56 lck and c-src (IC<sub>50</sub> = 5  $\mu$ M). RWJ 67657 did not inhibit T cell prodn. of interleukin-2 or interferon- $\gamma$  and did not inhibit T cell proliferation in response to mitogens. RWJ 67657 inhibited TNF- $\alpha$  prodn. in lipopolysaccharide-injected mice (87% inhibition at 50 mg/kg) and in rats (91% inhibition at 25 mg/kg) after oral administration. Based on these favorable biol. properties, RWJ 67657 may have use as a treatment for inflammatory diseases.

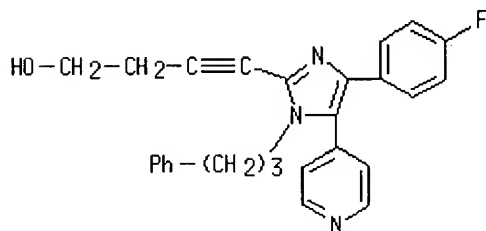
IT 215303-72-3, RWJ 67657

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(RWJ 67657: potent oral inhibitor of p38 mitogen-activated protein kinase)

RN 215303-72-3 HCAPLUS

CN 3-Butyn-1-ol, 4-[4-(4-fluorophenyl)-1-(3-phenylpropyl)-5-(4-pyridinyl)-1H-imidazol-2-yl]- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 31 THERE ARE 31 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L13 ANSWER 13 OF 13 HCAPLUS COPYRIGHT 2004 ACS on STN

Full Text Citing References

ACCESSION NUMBER: 1998:709071 HCAPLUS  
DOCUMENT NUMBER: 129:330728  
TITLE: Preparation of substituted imidazoles useful in the treatment of inflammatory diseases  
INVENTOR(S): Beers, Scott A.; Malloy, Elizabeth; Wachter, Michael P.; Wu, Wei  
PATENT ASSIGNEE(S): Ortho-McNeil Corporation, Inc., USA  
SOURCE: PCT Int. Appl., 50 pp.  
CODEN: PIXXD2  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9847892	A1	19981029	WO 1998-US7910	19980417
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				

RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG

AU 9871382	A1	19981113	AU 1998-71382	19980417
US 5965583	A	19991012	US 1998-62304	19980417
TR 9902622	T2	20000522	TR 1999-9902622	19980417
BR 9808998	A	20000808	BR 1998-8998	19980417
EP 1028954	A1	20000823	EP 1998-918463	19980417
EP 1028954	B1	20030702		

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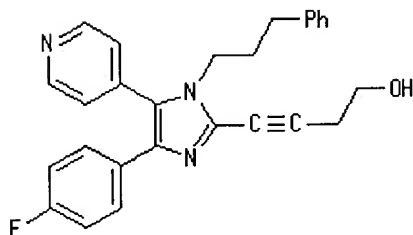
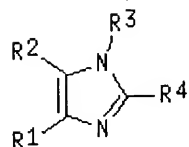
NZ 500447	A	20010928	NZ 1998-500447	19980417
JP 2001522357	T2	20011113	JP 1998-546231	19980417
AT 244234	E	20030715	AT 1998-918463	19980417
PT 1028954	T	20031128	PT 1998-918463	19980417
RU 2222534	C2	20040127	RU 1999-122164	19980417
ES 2202840	T3	20040401	ES 1998-918463	19980417
ZA 9803451	A	19991025	ZA 1998-3451	19980423
US 6214830	B1	20010410	US 1999-295156	19990420
NO 9905095	A	19991209	NO 1999-5095	19991019
MX 9909811	A	20000731	MX 1999-9811	19991025
US 6521655	B1	20030218	US 2000-705508	20001103

PRIORITY APPLN. INFO.:

US 1997-44252P	P	19970424
US 1998-62304	A3	19980417
WO 1998-US7910	W	19980417
US 1999-295156	A3	19990420

OTHER SOURCE(S):  
GI

MARPAT 129:330728



AB The title compds. [I; R1 = (un)substituted Ph, 5-6 membered heteroaryl; R2 = (un)substituted Ph, 5-6 membered heteroaryl; R3 = H, SEM, aryloxycarbonyl, etc.; R4 = A-(CH<sub>2</sub>)<sub>q</sub>X (wherein A = vinylene, ethynylene, C(:NOR<sub>5</sub>); R<sub>5</sub> = H, C1-5 alkyl, Ph, Ph(C1-5 alkyl); q = 0-9; X = H, OH, vinyl, etc.); with the proviso that if A = C(:NOR<sub>5</sub>), q = 0 and X = H, R<sub>3</sub> may not be SEM] which inhibit the prodn. of a no. of inflammatory cytokines, and are useful in the treatment of diseases assocd. with overprodn. of inflammatory cytokines, were prepd. Thus, coupling 4-(4-fluorophenyl)-2-iodo-1-(3-phenylpropyl)-5-(4-pyridyl)imidazole with 3-butyn-1-ol in the presence of Et<sub>3</sub>N and Pd(II) (PPh<sub>3</sub>)<sub>2</sub>(OAc)<sub>2</sub> in CH<sub>2</sub>Cl<sub>2</sub> afforded the title compd. II which showed IC<sub>50</sub> of 7 nM against the prodn. of IL-1 $\beta$  and IC<sub>50</sub> of 3.0 nM against TNF- $\alpha$  prodn.

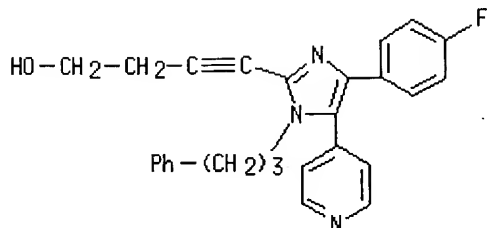
IT 215303-72-3P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)

(prepn. of substituted imidazoles for the treatment of inflammatory diseases)

RN 215303-72-3 HCAPLUS

CN 3-Butyn-1-ol, 4-[4-(4-fluorophenyl)-1-(3-phenylpropyl)-5-(4-pyridinyl)-1H-imidazol-2-yl]- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

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L3 35 S L1 FULL

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L7 0 S L4 AND CZARNIECKI, M?/AU

L8 0 S L4 AND DOMALKSI, M?/AU

L9 0 S L4 AND HO, G?/AU



L10 46 S TULSHIAN, D?/AU  
L11 0 S L10 AND L4  
L12 2 S L4 AND WU, W?/AU  
L13 13 S L4 NOT 12

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